

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (original) An optical transmission system comprising:
  - at least one optical transmitter configured to transmit at least one signal wavelength and a tuning wavelength;
  - an optical receiver including an optical filter having a filter bandwidth including the at least one signal wavelength and a percentage of the tuning wavelength and an optical to electrical signal converter configured to receive the at least one signal wavelength from said filter;
  - a first tuning optical to electrical converter configured to receive a first portion of the tuning wavelength stopped by said filter;
  - a second tuning optical to electrical converter configured to receive a second portion of the tuning wavelength passed by said filter; and,
  - a filter controller configured to tune the filter bandwidth based on the relative proportion of first and second portions of the tuning wavelength provided to the first and second tuning optical to electrical converters.

Claims 2-29 (cancelled).